

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/022715

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61F5/01

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 680 549 A (LEHNEIS HANS R ET AL) 1 August 1972 (1972-08-01) figures 1,2 column 2, line 9 - line 23 column 1, line 46 - line 57 claims 1-4	1-6,8, 17-45
Y	US 5 897 515 A (ENGDAHL KARL ET AL) 27 April 1999 (1999-04-27) figures 1,2 column 1, line 12 - line 14 column 3, line 3 - line 50	1-6,8, 17-45
Y	DE 93 19 050 U (STEP MEDIZINTECHNIK GMBH) 17 February 1994 (1994-02-17) figures 1,2 page 3, line 15 - line 23 claims 1,2	1,3-6,8, 17-45
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## ° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the International filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the International filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&amp;" document member of the same patent family

Date of the actual completion of the international search

2 December 2004

Date of mailing of the international search report

25. 02. 2005

Name and mailing address of the ISA

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International Application No  
PCT/US2004/022715

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 146 349 A (ROTHSCHILD VERNON R ET AL) 14 November 2000 (2000-11-14) figures 1,3D,6C,8A column 2, line 28 - line 29 -----	1-8, 17-45
A	US 6 406 450 B1 (KOWALCZYK GREGORY ET AL) 18 June 2002 (2002-06-18) figures 2,3 -----	1-8, 17-45

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2004/022715

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-8, 17-45

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8, 17-45

An orthosis comprising a body made of composite carbon fiber.

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2. claims: 9-16, 17-45

An orthosis wherein the lower leg portion is configured to spiral upward and clockwise from the foot plate portion and, as it ascends, to make contact with an anterior surface of the wearer's lower leg prior to making contact with a posterior surface of the wearer's leg.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/022715

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3680549	A	01-08-1972	NONE	
-----				
US 5897515	A	27-04-1999	AT 210417 T	15-12-2001
			AU 736950 B2	09-08-2001
			AU 3871897 A	26-08-1998
			CA 2279225 A1	13-08-1998
			CN 1245411 A	23-02-2000
			DE 69709184 D1	24-01-2002
			DE 69709184 T2	20-06-2002
			DE 1005297 T1	25-01-2001
			DK 1005297 T3	28-01-2002
			EP 1114626 A2	11-07-2001
			EP 1005297 A1	07-06-2000
			ES 2167772 T3	16-05-2002
			JP 2001510377 T	31-07-2001
			NO 993737 A	05-10-1999
			PL 335088 A1	10-04-2000
			WO 9834572 A1	13-08-1998
-----				
DE 9319050	U	17-02-1994	DE 9319050 U1	17-02-1994
-----				
US 6146349	A	14-11-2000	DE 19741220 A1	02-04-1998
			FR 2753369 A1	20-03-1998
			GB 2317568 A ,B	01-04-1998
			GB 2327378 A ,B	27-01-1999
-----				
US 6406450	B1	18-06-2002	AU 1794501 A	31-07-2001
			CA 2397552 A1	26-07-2001
			EP 1251807 A1	30-10-2002
			WO 0152778 A1	26-07-2001
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